

according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Ammonium nitrate, 100 g

CAS No: 6484-52-2 EC No: 229-347-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone +49 (0)681 302-71232

SECTION 2: Hazards identification

number:

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: O - Oxidizing, Xi - Irritant

R phrases:

Contact with combustible material may cause fire. Irritating to eyes, respiratory system and skin.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Oxidising solid: Ox. Sol. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:
May intensify fire; oxidiser.
Causes skin irritation.
Causes serious eve irritation

Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Hazardous components which must be listed on the label

Ammonium nitrate

Signal word: Warning
Pictograms: GHS03-GHS07



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 2 of 8





Hazard statements

H272 May intensify fire; oxidiser.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: H4N2O3 Molecular weight: 80,04

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
229-347-8	Ammonium nitrate	100 %
6484-52-2	O - Oxidizing, Xi - Irritant R08-36/37/38	
	Ox. Sol. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H272 H315 H319 H335	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 3 of 8

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Keep away from combustible material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 4 of 8

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid
Colour: colourless

Odour: No data available

Test method

pH-Value (at 25 °C): 5,5 80,4

Changes in the physical state

Melting point:169 °CInitial boiling point and boiling range:210 °CSublimation point:No data availableSoftening point:No data availableFlash point:No data available

Flammability

Solid: No data available
Gas: No data available
Lower explosion limits: No data available
Upper explosion limits: No data available
Ignition temperature: No data available

Auto-ignition temperature

Solid:
Gas:
No data available
No data available
Vapour pressure:
No data available
Vapour pressure:
No data available
No data available
No data available
No data available
Density (at 20 °C):
1,72 g/cm³
Water solubility:
2130 g/L
(at 25 °C)

Partition coefficient:

Viscosity / dynamic:

Viscosity / kinematic:

No data available

No data available

No data available

Vapour density:

Evaporation rate:

No data available

No data available

No data available

Solvent content:

No data available

9.2. Other information

Flow time:

Solid content: No data available

No data available



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 5 of 8

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

In case of impact or pressure influence: Explosion hazard. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Keep away from: material, combustible.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxicological data are not available.

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: Irritant.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 6 of 8

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u> UN1942

14.2. UN proper shipping name: AMMONIUM NITRATE with not more than 0.2% total combustible material,

including any organic substance calculated as carbon to the exclusion of

any other added substance

14.3. Transport hazard class(es): 5.1

14.4. Packing group:IIIHazard label:5.1Classification code:O2Special Provisions:306 611Limited quantity:5 kgTransport category:3

Hazard No: 50
Tunnel restriction code: E



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 7 of 8

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number: UN1942

14.2. UN proper shipping name: AMMONIUM NITRATE with not more than 0.2% total combustible material,

including any organic substance calculated as carbon to the exclusion of

any other added substance

14.3. Transport hazard class(es): 5.1

14.4. Packing group:

Hazard label: 5.1
Classification code: O2
Special Provisions: 306 611
Limited quantity: 5 kg

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN1942

14.2. UN proper shipping name: AMMONIUM NITRATE with not more than 0.2 % total combustible

material, including any organic substance calculated as carbon to the

exclusion of any other added substance

14.3. Transport hazard class(es): 5.1

14.4. Packing group:

Hazard label: 5.1
Special Provisions: 306, 952
Limited quantity: 5 kg
EmS: F-H, S-Q

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN1942

14.2. UN proper shipping name: AMMONIUM NITRATE with not more than 0.2 % total combustible

material, including any organic substance calculated as carbon to the

exclusion of any other added substance

14.3. Transport hazard class(es): 5.1

14.4. Packing group:IIIHazard label:5.1Special Provisions:A64

Limited quantity Passenger: 10 kg IATA-packing instructions - Passenger:

IATA-packing instructions - Passenger:559IATA-max. quantity - Passenger:25 kgIATA-packing instructions - Cargo:563IATA-max. quantity - Cargo:100 kg

Other applicable information (air transport)

E1 : Y546

. 1340

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no



according to Regulation (EC) No 1907/2006

Ammonium nitrate, 100 g

Print date: 14.04.2015 Product code: 9991085 Page 8 of 8

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

O8 Contact with combustible material may cause fire. 36/37/38 Irritating to eyes, respiratory system and skin.

Relevant H- and EUH-phrases (Number and full text)

H2/2	iviay intensity tire; oxidiser.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.